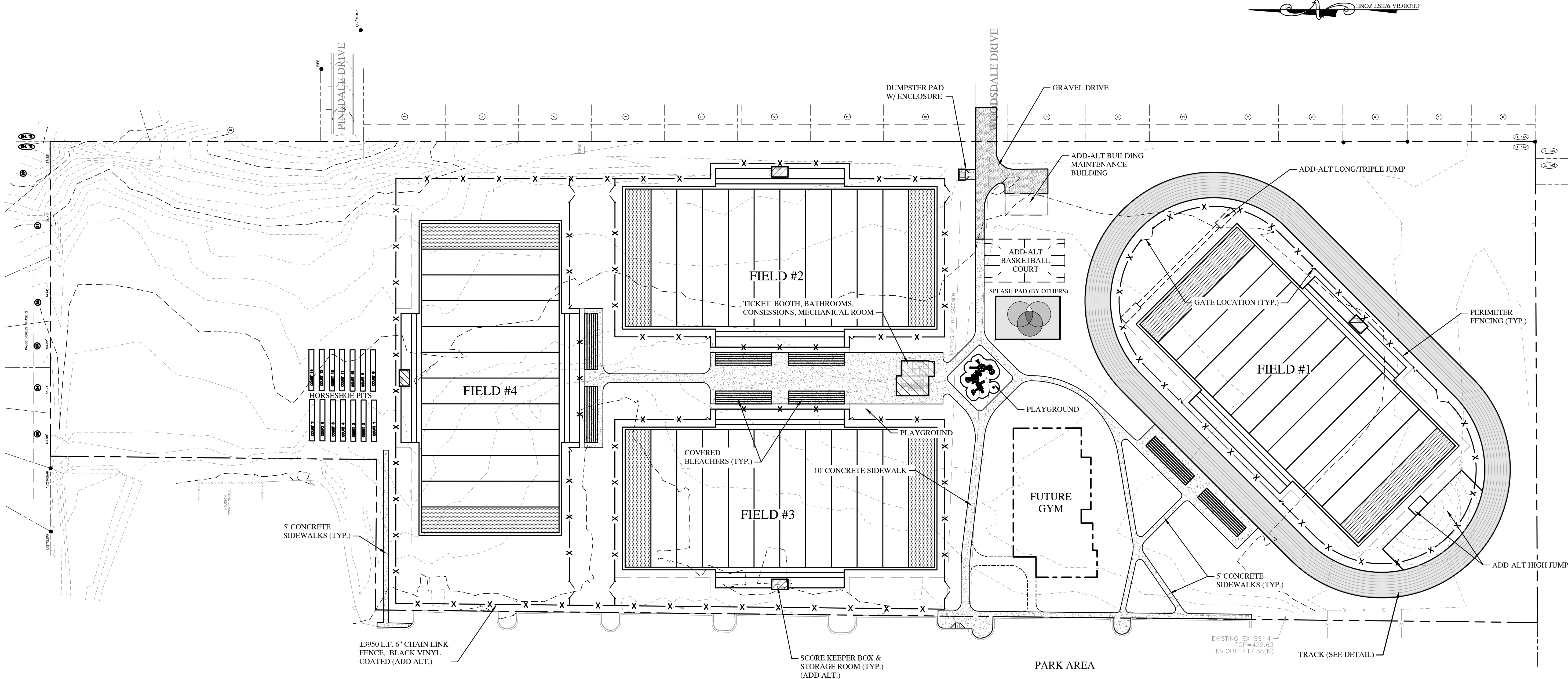


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SPORTS FIELD CONSTRUCTION SPECIFICATIONS

Part 1 - Description of Work

- A. Fine grading of sports fields
- B. Installation of irrigation
- C. Finish grading of sports fields
- D. Sodding of sports fields
- E. Maintenance of Sports fields

1.01 Definitions

- A. Topsoil: Friable surface soil, if included, which is reasonably free of subsoil, rocks, stones, sticks, and other debris over one inch (1") in diameter and without weeds, roots and other objectionable material.
- B. Subgrade: That soil directly below the topsoil being existing in place soil and/or properly compacted imported soil, both being stable as a supporting medium and acceptable as part of a rootzone for sports field construction.
- C. Rootzone Mix: The combination of topsoil, sub-surface soil, sand, lime, fertilizer and possibly peat lightly blended into a homogeneous mixture; the sand being approximately 85% of the mixture.

1.02 Quality Assurance

- A. Laser grading of sports fields shall be performed by only sports Field Contractors meeting all of the following qualifications:

1. The sports Field Contractor shall be a specialty contractor whose sole business is the construction of athletic fields. The Sports Field contractor shall have built and completed two (2) similar projects per year during each of the last five (5) consecutive years; said projects shall have been performed by and only by the actual sports Field contractor that is submitting this bid, more particularly, previous projects performed by owners, partners, staff and employees in association with other organizations shall not be considered. Further, prior work performed as a subcontractor involving only part of directed field construction on such previous projects shall not be

- considered. For example, contractor whose primary experience only involves the sprigging of athletic fields shall not be considered a Sports Field Contractors.
2. The Sports Field contractor shall perform all required work with staff supervision and employees, using company equipment either owned or leased.
 3. The Sports Field Contractor must have built a minimum of five (5), two inch to twelve inch (2"-12") depth sand based rootzone fields, specifically, and not natural soil fields with sand added as an amendment.
 4. The sports Field Contractor's use of laser technology shall include a laser controlled, hydraulically activated land plane, tractors, disc harrows and other specialized sports field construction equipment.
 5. If required the sports Field contractor shall submit to the Owner and Project Engineer, no later than ten (10) days prior to the bid opening, the following typed information for each of the ten (ten) projects required in Paragraph 1, alone:

- a) Project Name
- b) Project Description
- c) Project's Complete Address including Zip Code
- d) Owner's Name
- e) Owner's complete Address including Zip Code
- f) Owner's Telephone Area code and Number
- g) Owner's Current contact Person
- h) Listing of Laser Technology & Equipment plus other Specialized Sports Field Construction Equipment owned and/or leased.

Part 2 - Products

2.01 Sand

- A. USGA Greens sand or sand meeting the USGA specifications per particle size analysis if peat is not used. If peat is used, coarse sand meeting DOT specs 801.02 can be used.

2.02 Lime

- A. Dolomitic lime, stone ground to meet agricultural standards containing a minimum of eighty-five percent (85%) carbonates.

2.03 Fertilizer

- A. A commercial mixed grade fertilizer based on soil test analysis from the University of Georgia or an approved soil test lab.

2.04 Sod

- A. Georgia Certified Tifway 419 Hybrid Bermuda grass produced under the rules and regulations of the Georgia Crop Improvements Association, Inc. The sod shall be harvested from vigorously growing, properly fertilized field(s) with at least one full growing season prior to harvesting. Sod shall be harvested in forty-two (42) inch width rolls and the harvest netting shall be removed upon installation.

2.05 Laser Grading

- A. Laser grading shall include the use of a land leveler that is equipped with a laser controlled hydraulic system that automatically raises and lowers the implement. This implement shall be towed by an agricultural type tractor to reduce compaction. Laser grading shall be a multiple step process beginning with the subgrade and continuing with each layer of amendments including the topsoil layer, sand layer and the final rootzone. Each of these four (4) individual layers will require a laser grading process and will meet the following degrees of variation to desired slopes and elevations: the subgrade \pm one-half (1/2) inch, the topsoil layer \pm one-half (1/2) inch, and the finished surface grade \pm one-fourth (1/4) inch.
- B. The Sports Field Contractor shall provide all the equipment, labor and material to properly complete all the construction activities pertaining to the timely completion of the sports field project.

Part 3 - Execution

3.01 Subgrade and Rootzone Preparation

- A. The Sports Field Contractor shall:

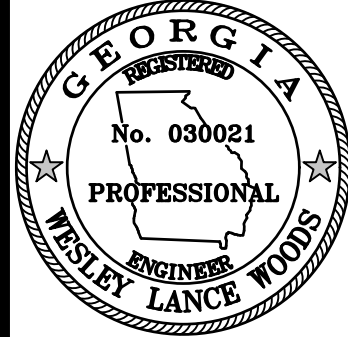
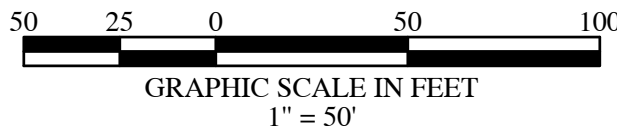
1. Meet with the General Contractor, Engineer and Owner's Representative(s) before any work is initiated for review and general coordination procedures.

2. Upon the grading subcontractor reaching sub grade within one tenth (1/10th) foot elevation (twelve [12] inches below finished grade), till the field(s) with a chisel plow six to eight (6-8) inches into the sub-surface a minimum of three (3) times.
3. Laser grade the sub-surface to within \pm one-half (1/2) inches of the designated slopes and elevations.
4. Install drain system as per plans.
5. Install all irrigation main lines, valve boxes, electric controls and wires and all pipe trenches. Re-compact disturbed areas to prevent future settling. The depth and height of installation is subject to final grade.
6. Add six (6) inches of topsoil, from on-site (screened) stockpile area, and laser grade to within one half (1/2) inch of designated slopes and elevations.
7. Remove small loose rocks, stone and debris, using a Harley Rock Machine or equivalent as required, thereby causing the sub-surface soil to be reasonable free of such miscellaneous matter. Remove debris from site.
8. If USGA sand is used for rootzone, add six (6) inches of material per previously described USGA sand. If peat is used, add four (4) inches of previously described coarse sand and two (2) inches of peat giving a one to three inclusion rate. Till peat into top four (4) inches of root zone on all sodded areas. Add, subject to soil test analysis, proper amounts of fertilizer and lime and incorporate into the top four (4) inches of rootzone material. Laser grade the field material within one-quarter (1/4) inch of designated slopes and elevations.
9. Install the sprinkler heads as related to the surface at the appropriate elevation for sodding and carefully re-compact around the heads to prevent future setting. The irrigation system shall be tested and its proper operation thoroughly confirmed and demonstrated prior to sodding.
10. Initiate the installation of sod as defined on plans. Sod shall be as per Paragraph 2.04. Immediately after sodding certain sections of the field(s) the irrigation system shall be activated through each appropriate zone on a five to ten (5-10) minute cycle until the ground is thoroughly wet. The watering shall be the responsibility of the Sports Field Contractor during the installation and maintenance period (90 days). The sports Field Contractor will not be responsible for the cost of the water. Subsequent watering as well as maintenance shall be the sole responsibility of Owner. As part of the Owner's

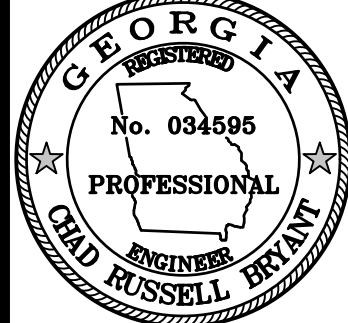
- maintenance program, the sod shall be kept moist until rooting occurs and then irrigated on a three (3) day per week cycle, subject to side and current weather conditions.

3.02 Maintenance

- A. Sports Field Contractor shall maintain fields for ninety (90) calendar days to assure a healthy and vigorous stand of grass and shall provide Owner with full instructions and review the irrigation system (with irrigation subcontractor) for the subsequent care by the Owner.
- B. Provide the Owner's Representative with a twelve (12) month Maintenance Plan, including but not limited to fertilization, weed control, and mowing. Any written maintenance plan prepared in advance is subject to current site and weather conditions.



WESLEY LANCE WOODS, P.E.
GSWCC LEVEL II
DESIGN PROFESSIONAL
CERTIFICATION # 24611



CHAD R. BRYANT, P.E.
GSWCC LEVEL II
DESIGN PROFESSIONAL
CERTIFICATION # 24596

Ocmulgee, Inc.
SURVEYORS • ENGINEERS • CONSULTANTS • PLANNERS
906 Ball Street
Perry, Georgia 31069
Office: (478) 224-7070
Fax: (478) 224-7072

COUNTY:	HOUSTON	142.5
LD DISTRICT:	17-0108D-MASTER	
DWG:	17-0108D-MASTER	
DATE:	8/20/17	
SCALE:	1"=50'	
JOB NO.:	17-0108D	

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SITE PLAN FOR:
TANNER PARK SPORTS FACILITY
WARNER ROBINS
GEORGIA

REVISIONS	NO.	DATE	DESCRIPTION

SHEET NO.
C-2.1